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(54) Title: UNICODE CONVERTER

(57) Abstract

Code conversion and/or truncation processing systems and techniques that provide round trip fidelity, while ensuring that the resulting character codes are interchangeable with other platforms, that take direction and/or context into consideration when converting characters from a source character encoding to a target character encoding is disclosed, and that ensures that a source string received for conversion is accurately converted into a different target character encoding even when the source string exceeds the length of an input buffer which holds the source string for conversion. The code conversion system is able to map a single source character or a sequence of characters to either a signal target character or a sequence of target characters. With round trip fidelity, source text can be converted to target text and then back again to the original source text, ensuring interchangeability by maximizing the use of standard target characters and minimizing the use of private characters. The code conversion is particularly useful for converting to/from Unicode characters from/to other character sets. By determining or resolving the direction of the characters being converted and/or by determining the context of the characters, the code conversion system can then utilize the determined or resolved direction of the characters to ensure that the correct mapping to the target character encoding is obtained. The truncation processing technique operates to truncate a portion of the source string held in the input buffer so that the truncated portion is able to be converted to the target character encoding without being affected by subsequent characters in the source string.



